

Song Meter SM2 & SM2+ Deployment 2017

1. **Remove lid.**
2. **Power on unit.** Power is manually controlled on the right-hand side next to the data card slots using jumpers or switches under 'Power Source'.
 - a. SM2 models – move black jumper from External (off) to **Internal** (on).
 - b. SM2+ models – toggle switch from External or Off to **Internal**.
3. **Insert data cards** (SD cards) into slots A and B. Make sure to hear the click. The screen will display the card's capacity when properly loaded.
4. **Load the configuration file** from the SD card using the buttons to the left of the screen. This will set the recording schedule which is calibrated in relation to sunrise and sunset times. This step must be done upon the initial deployment of a unit; if the unit is to be moved to another station, it is not necessary to load the configuration file again.
 - i. Press '**SELECT**'.
 - ii. Toggle the **DOWN** button to '**Utilities**' and press **SELECT**.
 - iii. Toggle the **DOWN** button to '**Load config from A:**' and press **SELECT**.
 - iv. Toggle to '**SK Atlas 2017-SM2.SET**' and press **SELECT**.
 - v. When the configuration is loaded the screen will display **CONFIGURATION LOADED**.
 - vi. Press '**BACK**' to exit the menus.

Utilities → Load config from A: → SK Atlas 2017-SM2.SET

5. **Specify the location name and coordinates;** this ensures that all recording files are stamped with the location name, and calibrates the recording schedule to sunrise/sunset. Location names follow a standard format: the first 7 alphanumeric characters designate the Atlas Square ID, followed by a dash, then two digits indicating the survey station (e.g., 12UXB64-01). If the Atlas Square and dash are pre-loaded on the SD card, you only need to **add the two digits indicating the survey station** (Settings → Location → Prefix → after the dash add the two digits indicating the survey station); otherwise, the up and down toggle buttons and the select buttons can be used to enter survey station ID. **THIS MUST BE DONE AFTER LOADING THE CONFIGURATION FILE.**
 - i. Press '**SELECT**'.
 - ii. Toggle the **DOWN** button to '**Settings**' and press **SELECT**.
 - iii. Toggle the **DOWN** button to '**Location**' and press **SELECT**.
 - iv. Toggle to '**Prefix**' and use **SELECT** button to advance flashing cursor to the end of the prefix, use the **DOWN** and **UP** buttons to add the digits indicating the survey station number.
 - v. Continue to press **SELECT** to confirm the location name.
 - vi. Toggle the **DOWN** button to '**Latitude**' and press **SELECT**, then enter the atlas square centroid coordinates in decimal degrees (the Song Meter only accept two significant digits, e.g., 53.25).
 - vii. Upon entering the last digit for latitude press **SELECT** to confirm the coordinate.
 - viii. Toggle the **DOWN** button to '**Longitude**' and press **SELECT** then enter the atlas square centroid coordinates in decimal degrees (the Song Meter only accept two significant digits, e.g., 103.45).
 - ix. Upon entering the last digit for longitude press **SELECT** to confirm the coordinate.

6. **Put unit to sleep.** Press the **WAKE/EXIT** button on the top left-hand corner of the unit; unit will display 'Going to sleep until' and the scheduled 'wake up' date and time.
7. **Close lid**, tightening screws to slightly more than finger tightness– the screws can easily strip.
8. **Secure unit to tree** using wire, or affix to a stake in the ground.
9. **Attach a microphone** to each of the left and right microphone ports.

NOTES:

- Pressing the '**WAKE/EXIT**' button when the unit is asleep will wake the unit from sleep.
- The above steps can be completed to prepare the unit for deployment before heading out to the field. If units are prepared before going to the field, then manually disengage the power (#2 above) until deploying the unit in the field. If the internal power is not disconnected then the unit will begin its recording schedule.
- During any transporting of the Song Meter SM2, **ensure that microphones are removed and stored in a safe place**. Putting the unit in a backpack or transporting the unit with microphones attached is a sure fire way to damage the microphones, they break very easily.
- If deploying the unit where ungulate activity is high, it is a good idea to wrap the unit in a chicken wire 'tunnel' (akin to an overwater duck nesting tunnel) but with the ends pinched together so as to disallow access and protect the microphones from curious animals. Deer and elk have been known to damage microphones by eating them.
- Please record deployment dates and other information (e.g., unit ID, microphone ID) on the Song Meter deployment sheet. This will ensure that all deployment steps are completed and properly documented.